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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/565,079	01/18/2006	Jun Keun Chang	CHANG216	3911
	7590 10/29/200 D NEIMARK, P.L.L.C	EXAMINER		
624 NINTH STREET, NW			KINGAN, TIMOTHY G	
SUITE 300 WASHINGTON, DC 20001-5303			ART UNIT	PAPER NUMBER
			1797	
			MAIL DATE	DELIVERY MODE
			10/29/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
	10/565,079	CHANG ET AL.			
Office Action Summary	Examiner	Art Unit			
	TIMOTHY G. KINGAN	1797			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w. - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	lely filed the mailing date of this communication. (35 U.S.C. § 133).			
Status					
Responsive to communication(s) filed on <u>18 Ja</u> This action is FINAL . 2b)⊠ This Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro				
Disposition of Claims					
4) ☐ Claim(s) 1-12 is/are pending in the application. 4a) Of the above claim(s) is/are withdrav 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-9 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) 1-12 are subject to restriction and/or experience. Application Papers 9) ☐ The specification is objected to by the Examine 10) ☐ The drawing(s) filed on 18 January 2006 is/are:	vn from consideration. election requirement. r. a)⊠ accepted or b)⊡ objected	-			
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 01/18/2008. 4) Interview Summary (PTO-413) Paper No(s)/Mail Date 5) Notice of Informal Patent Application 6) Other:					

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DETAILED ACTION

Election/Restrictions

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
 - Claims 1-9, drawn to a device for counting fine particles, classified in class 359, subclass 398.
 - II. Claims 10-12, drawn to a method of manufacturing a device for counting fine particles by a process comprising forming a mold, etching and pouring plastics, classified in class 264, subclass 155.

The inventions are distinct, each from the other because of the following reasons:

- 2. Inventions I and II are related as product and process of making. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make another and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case the process as claimed can be used to make materially different products such as tubular plastic products or containers with holes.
- 3. The examiner has required restriction between product and process claims. Where applicant elects claims directed to the product, and the product claims are subsequently found allowable, withdrawn process claims that depend from or otherwise require all the limitations of the allowable product claim will be considered for rejoinder.

 All claims directed to a nonelected process invention must require all the limitations of an allowable product claim for that process invention to be rejoined.

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In the event of rejoinder, the requirement for restriction between the product claims and the rejoined process claims will be withdrawn, and the rejoined process claims will be fully examined for patentability in accordance with 37 CFR 1.104. Thus, to be allowable, the rejoined claims must meet all criteria for patentability including the requirements of 35 U.S.C. 101, 102, 103 and 112. Until all claims to the elected product are found allowable, an otherwise proper restriction requirement between product claims and process claims may be maintained. Withdrawn process claims that are not commensurate in scope with an allowable product claim will not be rejoined. See MPEP § 821.04(b). Additionally, in order to retain the right to rejoinder in accordance with the above policy, applicant is advised that the process claims should be amended during prosecution to require the limitations of the product claims. Failure to do so may result in a loss of the right to rejoinder. Further, note that the prohibition against double patenting rejections of 35 U.S.C. 121 does not apply where the restriction requirement is withdrawn by the examiner before the patent issues. See MPEP § 804.01.

4. During a telephone conversation with Roger Browdy on 10/08/2008 a provisional election was made with traverse to prosecute the invention of Group I, claims 1-9.

Affirmation of this election must be made by applicant in replying to this Office action.

Claims 10-12 are withdrawn from further consideration by the examiner, 37

CFR 1.142(b), as being drawn to a non-elected invention.

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Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. The factual inquiries set forth in *Graham* **v.** *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
 - 1. Determining the scope and contents of the prior art.
 - 2. Ascertaining the differences between the prior art and the claims at issue.
 - 3. Resolving the level of ordinary skill in the pertinent art.
 - 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 3. Claims 1-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over R.S. Hillman et al., U.S. Patent 4,963,498 (herein after Hillman) in view of O. Risch, U.S. Patent 1,693,961 (herein after Risch).

For Claim 1, Hillman teaches a microfluidic device for determining red-blood-cell count (col 1, lines 28-37) comprising a three-layered device with three chambers, including a receiving chamber (fill chamber of predetermined height) and inlet port (col 19, lines 38-49) (injecting hole for sample containing particles). Hillman does not teach a fine lattice pattern on the lower substrate. Such lattice or grid patterns are known in the art of devices for visual inspection and counting of cells or particles in liquid samples; Risch teaches a hemocytometer for counting blood cells, the glass body of which is provided

with rulings or gratings (p. 1, ¶ 4; Fig. 1). It would have been obvious to one of ordinary skill in the art to include the gratings (lattice) of Risch in the metering and inspection device of Hillman in order to provide the well known advantage of such gratings for counting cells or particles by visual inspection.

For Claim 2, Hillman teaches exit and intermediate vents in communication with the receiving chamber (fill chamber) (col 19, lines 62-64) (for discharging sample or an air bubble).

For Claims 3-4, Hillman teaches bonding of the layers of the device with use of ultrasonic welding or solvent bonding (col 15, lines 8-11) (to form an integrated device). For Claim 5, Hillman teaches a device in the region of the fill chamber comprising 2 mils or greater in height (ca. 58 microns) (col 15, lines 50-52), within the dimension of the instant claim.

For Claims 6-7, Hillman teaches reaction chambers with comprising transparent walls of the light guide (col 12, lines 58-67) (upper and lower substrates). Hillman and Risch do not teach the lattice pattern in a predetermined place of the area in which the fill chamber is formed. It would have been obvious to one of ordinary skill in the art to place the lattice pattern at a predetermined location accessible to the fill chamber in order to make use of the fill chamber as a visual indicator of the position of the lattice, the fine markings of which may otherwise be difficult to locate in a method of counting involving microscopy.

For Claim 8, Hillman teaches the layers (upper and lower substrates) of the device comprise plastic (col 14, lines 42-57) (upper and lower surface is made of plastic).

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For Claim 9, Hillman teaches devices suitable for use in red-blood-cell counting (col 1, lines 35-37; col 17, lines 41-48).

Conclusion

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. J.M. Blatt et al., U.S. Patent 4,761,381.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to TIMOTHY G. KINGAN whose telephone number is (571)270-3720. The examiner can normally be reached on Monday-Friday, 8:30 A.M. to 5:00 P.M., E.S.T..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jill Warden can be reached on 571 272-1267. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.